

REMARKS/ARGUMENTS

Claims 1-3, 5-7, 9-42, 44-53 and 56-57 and 203-204 are currently pending in the application. Claims 4, 8, 43 and 54-55 have been canceled without prejudice. Claims 11, 13-21 and 23-36 have been rejoined. Claims 58-202 and 205-213 have been canceled without prejudice because they are drawn to a non-elected invention with traverse. Applicants respectfully submit that no additional fees are due at this time.

Applicants respectfully submit that the foregoing amendments to the claims are supported in the application as originally filed and that no new matter has been added. In view of the following remarks and amendments, applicants respectfully request a timely Notice of Allowance be issued in this case.

Claim Objections

The Office objected to claims 11, 13-21 and 23-36 as being of improper dependant form. Claims 11, 13-21 and 23-36 have been amended to correct the dependency of the claims. Applicants respectfully request withdrawal of the objections.

Claim Rejections under 35 U.S.C. § 112, First Paragraph

Claims 18-20, 23, 26 and 30-36 were rejected under 35 U.S.C. § 112, first paragraph, for failing to comply with the written description requirement. Applicants respectfully submit that appropriate amendments have been made to the claims. The specification has been amended (new paragraph [0072.2]) to describe the datasets and terms disclosed in originally filed claims 18-20, 23, 26 and 30-36. As a result, Applicants respectfully submit that no new matter has been added. In addition, Applicants respectfully submit that these datasets and terms are well known to those skilled in the art as evidenced by printouts of search results on the databases available on the website for the National Center for Biotechnology Information (established in 1988) attached hereto as Exhibit A:

Claim	Search Term	PubMed Central Hits	Site Search Hits	Book Hits	Exhibit
18	“linkage database”	13	71	42	A-1
19	“splice variant database”	1,527	29	11	A-2
20	“translocation database”	4,535	3	7	A-3
23	“engineered gene” or “non-naturally occurring gene”	92	7	6	A-4
26	“cDNA stability”	20,071	1	24	A-5
30	“post translational modification sequence”	5,274	8	29	A-6

31	“protein stability”	3,909	1	23	A-7
32	“predicted protein transport”	2,246	-	3	A-8
33	“shuffled gene”	878	7	3	A-9
34	“site-directed mutagenesis gene”	22,270	2	45	A-10
35	“methylated sequence”	161	2	84	A-11
36	“epigenetic variation”	70	-	1	A-12

Applicants respectfully submit that claims 18-20, 23, 26 and 30-36 contain subject matter which is described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. As a result, Applicants respectfully submit that the claims comply with the written description requirement required by 35 U.S.C. § 112, first paragraph. Accordingly, Applicants request the withdrawal of the rejections and allowance of all pending claims.

Claim Rejections under 35 U.S.C. § 112, Second Paragraph

Claims 11, 13-21 and 23-36 were rejected under 35 U.S.C. § 112, second paragraph, for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. Applicants respectfully submit that appropriate amendments have been made to the claims. For example, claims 11 and 13-21 have been amended to be consistent with the claim format used in allowed claim 12. Similarly, claims 23-26 have been amended to be consistent with the claim format used in allowed claim 22. As previously described, claims 18-20, 23, 26 and 30-36 recite well known terms that clearly and distinctly claim the invention in light of the specification and common knowledge of those skilled in the art. As a result, Applicants respectfully submit that the claims distinctly claim the invention are required by 35 U.S.C. § 112, second paragraph. Accordingly, Applicants request the withdrawal of the rejections and allowance of all pending claims.

Allowed Claims

Applicants gratefully acknowledge the allowance of claims 1-3, 5-7, 9-10, 12, 22, 37-42, 44-53, 56-57 and 203-204.

Conclusion

Applicants respectfully submit that claims 1-3, 5-7, 9-10, 12, 22, 37-42, 44-53, 56-57 and 203-204, as amended, are fully patentable. Applicants respectfully request that a timely Notice of Allowance be issued in this case. If the examiner has any questions or comments, or if further clarification is required, it is requested that the examiner contact

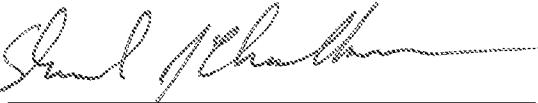
Appl. No. 09/998,904
Amdt. dated Aug. 15, 2007
Reply to Office Action of Jun. 15, 2007

the undersigned at the telephone number listed below.

Date: August 15, 2007

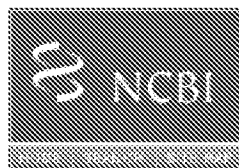
Respectfully submitted,

CHALKER FLORES, LLP

By 

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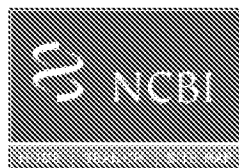
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PubChem Substance: deposited chemical substance records.	Probe: sequence-specific reagents.
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GO

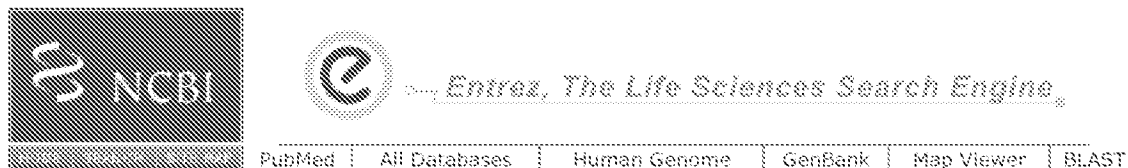
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67 Genome: whole genome sequences	326 UniSTS: markers and mapping data
none Structure: three-dimensional macromolecular structures	1 PopSet: population study data sets
none Taxonomy: organisms in GenBank	5 GEO Profiles: expression and molecular abundance profiles
none SNP: single nucleotide polymorphism	40 GEO DataSets: experimental sets of GEO data
503 Gene: gene-centered information	3813 Cancer Chromosomes: cytogenetic databases
13 HomoloGene: eukaryotic homology groups	none PubChem BioAssay: bioactivity screens of chemical substances
35 PubChem Compound: unique small molecule chemical structures	79 GENSAT: gene expression atlas of mouse central nervous system
12 PubChem Substance: deposited chemical substance records	none Probe: sequence-specific reagents
52 Genome Project: genome project information	619 Protein Clusters: a collection of related protein sequences
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




























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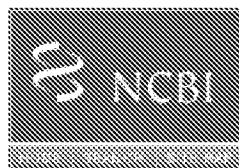
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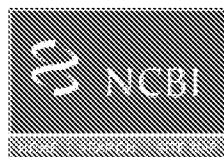
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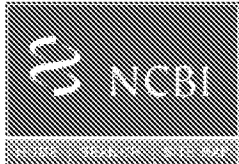
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

























































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none




Journals: detailed information about the journals indexed in PubMed and other Entrez databases




5




NLM Catalog: catalog of books, journals, and audiovisuals in the NLM collections



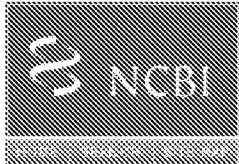
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MeSH: detailed information about NLM's controlled vocabulary



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

























































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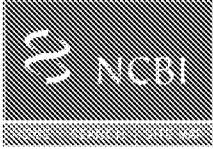
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 - Result counts displayed in gray indicate one or more terms not found

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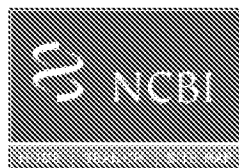
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- Result counts displayed in gray indicate one or more terms not found

<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">156</div> <div style="margin-right: 5px;"></div> <div>PubMed: biomedical literature citations and abstracts</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">878</div> <div style="margin-right: 5px;"></div> <div>PubMed Central: free, full text journal articles</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">7</div> <div style="margin-right: 5px;"></div> <div>Site Search: NCBI web and FTP sites</div> <div style="margin-left: 10px;"></div> </div>	<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">3</div> <div style="margin-right: 5px;"></div> <div>Books: online books</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">14562</div> <div style="margin-right: 5px;"></div> <div>OMIM: online Mendelian Inheritance in Man</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">2</div> <div style="margin-right: 5px;"></div> <div>OMIA: online Mendelian Inheritance in Animals</div> <div style="margin-left: 10px;"></div> </div>
<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>CoreNucleotides: Core subset of nucleotide sequence records</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>EST: Expressed Sequence Tag records</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>GSS: Genome Survey Sequence records</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>Protein: sequence database</div> <div style="margin-left: 10px;"></div> </div>	<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">4</div> <div style="margin-right: 5px;"></div> <div>dbGAP: genotype and phenotype</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">60174</div> <div style="margin-right: 5px;"></div> <div>UniGene: gene-oriented clusters of transcript sequences</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">702</div> <div style="margin-right: 5px;"></div> <div>CCD: conserved protein domain database</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>3D Domains: domains from Entrez Structure</div> <div style="margin-left: 10px;"></div> </div>
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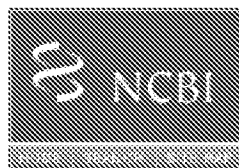
[PubMed](#) | [All Databases](#) | [Human Genome](#) | [GenBank](#) | [Map Viewer](#) | [BLAST](#)

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17475 PubMed: biomedical literature citations and abstracts	45 Books: online books
22270 PubMed Central: free, full text journal articles	143 OMIM: online Mendelian Inheritance in Man
2 Site Search: NCBI web and FTP sites	none OMIA: online Mendelian Inheritance in Animals
none CoreNucleotide: Core subset of nucleotide sequence records	none dbGaP: genotype and phenotype
none EST: Expressed Sequence Tag records	none UniGene: gene-oriented clusters of transcript sequences
none GSS: Genome Survey Sequence records	none CDD: conserved protein domain database
none Protein: sequence database	384 3D Domains: domains from Entrez Structure
5 Genome: whole genome sequences	none UniSTS: markers and mapping data
132 Structure: three-dimensional macromolecular structures	3 PopSet: population study data sets
none Taxonomy: organisms in GenBank	none GEO Profiles: expression and molecular abundance profiles
792 SNP: single nucleotide polymorphism	1 GEO DataSets: experimental sets of GEO data
8 Gene: gene-centered information	none Cancer Chromosomes: cytogenetic databases
211 HomoloGene: eukaryotic homology groups	none PubChem BioAssay: bioactivity screens of chemical substances
none PubChem Compound: unique small molecule chemical structures	none GENSAT: gene expression atlas of mouse central nervous system
none PubChem Substance: deposited chemical substance records	none Probe: sequence-specific reagents
none Genome Project: genome project information	none Protein Clusters: a collection of related protein sequences
none Journals: detailed information about the journals indexed in PubMed and other Entrez databases	none MeSH: detailed information about NLM's controlled vocabulary
6 NLM Catalog: catalog of books, journals, and audiovisuals in the NLM collections	

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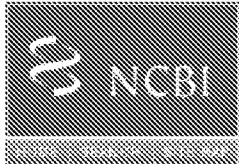
PubMed | All Databases | Human Genome | GenBank | Map Viewer | BLAST


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- Result counts displayed in gray indicate one or more terms not found

32 PubMed: biomedical literature citations and abstracts	84 Books: online books
161 PubMed Central: free, full text journal articles	131 OMIM: online Mendelian Inheritance in Man
2 Site Search: NCBI web and FTP sites	none OMIA: online Mendelian Inheritance in Animals
none CoreNucleotide: Core subset of nucleotide sequence records	9 dbGaP: genotype and phenotype
none EST: Expressed Sequence Tag records	3 UniGene: gene-oriented clusters of transcript sequences
6 GSS: Genome Survey Sequence records	1 CDD: conserved protein domain database
2 Protein: sequence database	46 3D Domains: domains from Entrez Structure
212 Genome: whole genome sequences	8852 UniSTS: markers and mapping data
8 Structure: three-dimensional macromolecular structures	23939 PopSet: population study data sets
none Taxonomy: organisms in Genbank	14 GEO Profiles: expression and molecular abundance profiles
19815377 SNP: single nucleotide polymorphism	24 GEO DataSets: experimental sets of GEO data
305 Gene: gene-centered information	46 Cancer Chromosomes: cytogenetic databases
81 HomoloGene: eukaryotic homology groups	none PubChem BioAssay: bioactivity screens of chemical substances
2 PubChem Compound: unique small molecule chemical structures	434 GENSAT: gene expression atlas of mouse central nervous system
5 PubChem Substance: deposited chemical substance records	13 Probe: sequence-specific reagents
590 Genome Project: genome project information	none Protein Clusters: a collection of related protein sequences
1 Journals: detailed information about the journals indexed in PubMed and other Entrez databases	2 MeSH: detailed information about NLM's controlled vocabulary
1 NLM Catalog: catalog of books, journals, and audiovisuals in the NLM collections	

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- Result counts displayed in gray indicate one or more terms not found

<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">51</div> <div style="margin-right: 5px;"></div> <div>PubMed: biomedical literature citations and abstracts</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">70</div> <div style="margin-right: 5px;"></div> <div>PubMed Central: free, full text journal articles</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>Site Search: NCBI web and FTP sites</div> <div style="margin-left: 10px;"></div> </div>	<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">1</div> <div style="margin-right: 5px;"></div> <div>Books: online books</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">1</div> <div style="margin-right: 5px;"></div> <div>OMIM: online Mendelian Inheritance in Man</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>OMIA: online Mendelian Inheritance in Animals</div> <div style="margin-left: 10px;"></div> </div>
<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">36</div> <div style="margin-right: 5px;"></div> <div>CoreNucleotide: Core subset of nucleotide sequence records</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>EST: Expressed Sequence Tag records</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>GSS: Genome Survey Sequence records</div> <div style="margin-left: 10px;"></div> </div>	<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">7</div> <div style="margin-right: 5px;"></div> <div>dbGaP: genotype and phenotype</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>UniGene: gene-oriented clusters of transcript sequences</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>CDD: conserved protein domain database</div> <div style="margin-left: 10px;"></div> </div>
<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">10</div> <div style="margin-right: 5px;"></div> <div>Protein: sequence database</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">2</div> <div style="margin-right: 5px;"></div> <div>Genome: whole genome sequences</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>Structure: three-dimensional macromolecular structures</div> <div style="margin-left: 10px;"></div> </div>	<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>3D Domains: domains from Entrez Structure</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">1</div> <div style="margin-right: 5px;"></div> <div>UniSTS: markers and mapping data</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">2010</div> <div style="margin-right: 5px;"></div> <div>PopSet: population study data sets</div> <div style="margin-left: 10px;"></div> </div>
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<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">20</div> <div style="margin-right: 5px;"></div> <div>HomoloGene: eukaryotic homology groups</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>PubChem Compound: unique small molecule chemical structures</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">13</div> <div style="margin-right: 5px;"></div> <div>PubChem Substance: deposited chemical substance records</div> <div style="margin-left: 10px;"></div> </div>	<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>PubChem BioAssay: bioactivity screens of chemical substances</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>GENSAT: gene expression atlas of mouse central nervous system</div> <div style="margin-left: 10px;"></div> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">none</div> <div style="margin-right: 5px;"></div> <div>Probe: sequence-specific reagents</div> <div style="margin-left: 10px;"></div> </div>
<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">37</div> <div style="margin-right: 5px;"></div> <div>Genome Project: genome project information</div> <div style="margin-left: 10px;"></div> </div>	<div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="border: 1px solid gray; padding: 2px; margin-right: 5px;">2</div> <div style="margin-right: 5px;"></div> <div>Protein Clusters: a collection of related protein sequences</div> <div style="margin-left: 10px;"></div> </div>
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